## COMPUTER SCIENCE TRIPOS Part IB 75%, Part II 50% - 2021 - Paper 7

## 2 Economics, Law and Ethics (ah793)

The new Master of (fictional) Porterhouse would like to modernise the college. They bring the following proposals to the College Council, of which you are a member.

- (a) Proposal 1: Change the way students are admitted to the college for all subjects. Rather than having humans interview candidates, or at least read their references and personal statements, an algorithm would make all admission decisions.
  - (i) Use an ethical perspective to make a persuasive argument for or against Proposal 1, defining and explaining relevant concepts. [5 marks]
  - (ii) If Proposal 1 is accepted, what changes would the college need to implement to comply with GDPR? [5 marks]
- (b) Proposal 2: The college is buying apartments in the next phase of the North West Cambridge development for use by graduate students and students with dependents. The options are to buy a) a range of apartments, from utilitarian to luxurious, which would be rented out at different amounts; or b) a block of apartments all of the same size, which would be rented out at the same price.
  - (i) Use an economic perspective to make a persuasive argument for option a) or b), defining and explaining relevant concepts. [5 marks]
  - (ii) If Proposal 2, option a) is accepted, how might the college decide how much to charge for each grade of apartment? [5 marks]